Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L23	990	(175/320).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/04 13:41
L24	658	(175/321).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/04 13:41
L25	58	23 and ((conduct$3 transmit$4) near3 signal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/04 13:42
L26	10	24 and ((conduct$3 transmit$4) near3 signal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/04 13:42
L27	28	("5316094").URPN.	USPAT	OR	ON	2005/04/04 14:03
L28	115	(340/854.4).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/04 14:23
L29	151	(340/853.1).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/04 14:27
L30	694	(166/65.1).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/04 14:27
S1	53958	(("175") or ("166")).CLAS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2002/11/13 14:30
S2	11	((("175"/$) or ("166"/$)).CCLS.) and (jar with housing with mandrel with coupl$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2002/11/13 14:48

S3	4	(("5086853") or ("4508174")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2002/11/13 14:50
S4	232	(166/178).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2002/11/13 15:17
S5	11	("Re28768" | "0046815" | "0051136" | "1214622" | "1450024" | "2305261" | "2628820" | "2739654" | "3054454" | "3358765" | "4427064").PN.	USPAT	OR	ON	2002/11/13 15:24
S6	6	"4736797".URPN.	USPAT	OR	ON	2002/11/13 15:27
S7	5	("2706616" | "2847655" | "3817345" | "4245313" | "4319240").PN.	USPAT	OR	ON	2002/11/14 08:33
S8	10	"2706616".URPN.	USPAT	OR	ON	2002/11/14 08:47
S9	4	"4416494".URPN.	USPAT	OR	ON	2002/11/14 08:52
S10	8	("4648444" | "4685516" | "4697641" | "4706744" | "4736797" | "4753291" | "4759406" | "4776393").PN.	USPAT	OR	ON	2002/11/14 08:57
S11	6	"5109921".URPN.	USPAT	OR	ON	2002/11/14 09:01
S12	6	("2187007" | "2620029" | "3024844" | "3957118" | "4098342" | "4624308").PN.	USPAT	OR	ON	2002/11/14 09:06
S13	9	"4706744".URPN.	USPAT	OR	ON	2002/11/14 09:10
S14	0	"081961"	US-PGPUB	OR	ON	2002/11/26 13:55
S15	181	(((("175"/$) or ("166"/$)).CCLS.) and jar) and housing and mandrel and coupl$3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2002/11/26 13:55
S16	0	((((("175"/$) or ("166"/$)).CCLS.) and jar) and housing and mandrel and coupl$3) and vibrator	US-PGPUB	OR	ON	2002/11/26 13:56
S17	0	((((("175"/$) or ("166"/$)).CCLS.) and jar) and housing and mandrel and coupl$3) and (drilling adj hammer)	US-PGPUB	OR	ON	2002/11/26 13:56
S18	937	((("175"/$) or ("166"/$)).CCLS.) and jar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2002/11/26 14:24

S19	0	(((("175"/$) or ("166"/$)).CCLS.) and jar) and vibrator	US-PGPUB	OR	ON	2002/11/26 13:56
S20	0	(((("175"/$) or ("166"/$)).CCLS.) and jar) and (drilling adj hammer)	US-PGPUB	OR	ON	2002/11/26 13:56
S21	1	((((("175"/$) or ("166"/$)).CCLS.) and jar) and housing and mandrel and coupl$3) and vibrator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2002/11/26 14:13
S22	0	((((("175"/$) or ("166"/$)).CCLS.) and jar) and housing and mandrel and coupl$3) and (drilling adj hammer)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2002/11/26 14:19
S23	10	(((("175"/$) or ("166"/$)).CCLS.) and jar) and vibrator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2002/11/26 14:24
S24	1	(((("175"/$) or ("166"/$)).CCLS.) and jar) and (drilling adj hammer)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2002/11/26 14:20
S25	0	((("175"/$) or ("166"/$)).CCLS.) and ((drill adj bit) near5 vibrator)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2002/11/26 14:26
S26	1	((("175"/$) or ("166"/$)).CCLS.) and ((drill adj bit) near10 vibrator)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2002/11/26 14:25
S27	35	((("175"/$) or ("166"/$)).CCLS.) and (drilling adj hammer)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2002/11/26 14:27
S28	3	((("175"/$) or ("166"/$)).CCLS.) and (jar near5 actuator)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2002/11/26 15:05
S29	0	((("175"/$) or ("166"/$)).CCLS.) and jar and (free near5 striking near5 range)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2002/11/26 15:06
S30	1	((("175"/$) or ("166"/$)).CCLS.) and (jar near5 orifice near5 (open closed))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2002/11/26 15:06
S31	158	(175/297).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2002/11/27 07:39

S32	126	(175/55).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2002/11/27 07:39
S33	226	(175/92).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2002/11/27 07:41
S34	234	(175/293).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2002/11/27 07:42
S35	383	(175/73).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2002/11/27 07:43
S36	265	(166/301).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2002/11/27 07:43
S37	0	(downhole adj tool) near5 housing near5 mandrel near5 actuat$3 near5 (signal power)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2003/02/25 10:27
S38	0	(downhole adj tool) near5 housing near5 mandrel near5 (signal power)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2003/02/25 10:28
S39	1	(downhole adj tool) near10 housing near10 mandrel near10 (signal power)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2003/02/25 10:28
S40	0	jar near5 housing near5 mandrel near5 (signal power)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2003/02/25 10:28
S41	1	jar near10 housing near10 mandrel near10 (signal power)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2003/02/25 10:28
S42	10	jar same housing same mandrel same (signal power)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2003/02/25 10:28

S43	7	((("175"/$) or ("166"/$)).CCLS.) and (jar near5 electric)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/06/02 13:19
S44	4	((166/178).CCLS.) and (166/65.1 166/66 166/66.4-66.7)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2003/02/25 10:34
S45	0	((("175"/$) or ("166"/$)).CCLS.) and (electr$4 adj jar)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2003/02/25 10:35
S46	8	(("2153883") or ("3191677") or ("3424244") or ("3528498") or ("3616868") or ("4890682") or ("6029748") or ("6112818")).PN.	USPAT; USOCR	OR	OFF	2004/06/02 15:09
S47	2	("6290004").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2003/06/16 09:18
S48	2	("6655460").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2004/06/02 09:50
S49	0	(control$4 near3 drill$3) with (electric$3 near3 transmit$4 near3 (tubular tubing pipe string casing)) with (tool valve)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/06/02 13:21
S50	1	(control$4 near3 drill$3) same (electric$3 near3 transmit$4 near3 (tubular tubing pipe string casing)) same (tool valve)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/06/02 14:43
S51	17	(control$4 near3 drill$3) and (electric$3 near3 transmit$4 near3 (tubular tubing pipe string casing)) and (tool valve)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/06/02 13:26
S52	1	(control$4 near3 drill$3) same (electric$3 near3 transmit$4 near3 (tubular tubing pipe string casing))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/06/02 14:43
S53	20	(control$4 near3 drill$3) and (electric$3 near3 transmit$4 near3 (tubular tubing pipe string casing))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/06/02 14:50
S54	2	(control$4 near3 drill$3) and (electric$3 near3 transmit$4 near3 (tubular tubing pipe string casing)) and jar$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/06/02 14:51

S55	36	(solenoid near3 valve) with jar$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/06/02 15:11
S56	84	(solenoid near3 valve) same jar$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/06/02 15:19
S57	2	("4796708").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2004/06/02 15:19
S58	201	(175/104).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2004/06/03 07:50
S59	887	(175/61).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2004/06/03 07:50
S60	570	(175/57).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2004/06/03 07:50
S61	10	((175/104).CCLS.) and ((175/57). CCLS.)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/06/03 07:52
S62	7	((175/104).CCLS.) and ((175/61). CCLS.)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/06/03 07:52
S63	8	("4140044" | "4291773" | "5085400" | "5330100" | "5372196" | "5501425" | "5877432" | "6263986").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/01/12 08:48
S64	0	("6729419").URPN.	USPAT	OR	ON	2005/01/12 08:50

S65	111	("0749633" | "20020135179" | "20020193004" | "20030070842" | "2178931" | "2301783" | "2354887" | "2379800" | "2414719" | "2659773" | "2662123" | "2974303" | "3079549" | "3090031" | "3186222" | "3194886" | "3209323" | "3227973" | "3518608" | "3696332" | "3793632" | "3807502" | "3879097" | "3930220" | "3957118" | "3989330" | "4012092" | "4087781" | "4095865" | "4121193" | "4126848" | "4215426" | "4220381" | "4348672" | "4445734" | "4537457" | "4578675" | "4605268" | "4660910" | "4683944" | "4698631" | "4722402" | "4785247" | "4788544" | "4806928" | "4884071" | "4901069" | "4914433" | "4924949" | "5008664" | "5052941" | "5148408" | "5223826" | "5248857" | "5278550" | "5302138" | "5332049" | "5334801" | "5371496" | "5454605" | "5455573" | "5505502" | "5517843" | "5521592" | "5568448" | "5650983" | "5691712" | "5743301" | "5810401" | "5833490" | "5853199" | "5856710" | "5898408" | "5908212" | "5924499" | "5942990" | "5955966" | "5959547" | "5971072" | "6030004" | "6041872" | "6045165" | "6046685" | "6057784" | "6104707" | "6108268" | "6123561" | "6141763" | "6173334" | "6177882" | "6188223" | "6196335" | "6367565" | "6392317" | "RE35790").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/01/12 08:50
S66	4	("5798488" | "5803186" | "5852587" | "5883516").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/01/12 09:04
S67	5	("6367565").URPN.	USPAT	OR	ON	2005/01/12 09:06

| S68 | 170 | ("2093794" \| "2499695" \|
"2551868" \| "2659576" \|
"2706616" \| "2801595" \|
"2915289" \| "2989132" \|
"3145787" \| "3208541" \|
"3233690" \| "3251426" \|
"3268003" \| "3285353" \|
"3307636" \| "3316986" \|
"3342266" \| "3343606" \|
"3349858" \| "3360060" \|
"3361220" \| "3371730" \|
"3380247" \| "3385384" \|
"3392795" \| "3399740" \|
"3399741" \| "3406770" \|
"3417822" \| "3429389" \|
"3446283" \| "3461962" \|
"3539025" \| "3562807" \|
"3566981" \| "3642069" \|
"3648786" \| "3651867" \|
"3658140" \| "3660990" \|
"3684042" \| "3685598" \|
"3685599" \| "3709478" \|
"3716109" \| "3724576" \|
"3727685" \| "3729058" \|
"3735827" \| "3768932" \|
"3797591" \| "3800876" \|
"3804185" \| "3834471" \|
"3837414" \| "3853187" \|
"3860076" \| "3877530" \|
"3880249" \| "3889766" \|
"3942373" \| "3949821" \|
"3955634" \| "3963081" \|
"3987858" \| "3994163" \|
"4004643" \| "4007798" \|
"4023630" \| "4036312" \|
"4059167" \| "4081043" \|
"4098338" \| "4105070" \|
"4105082" \| "4109736" \|
"4111271" \| "4113038" \|
"4124245" \| "4142597" \|
"4179002" \| "4181186" \|
"4186807" \| "4210214" \|
"4211293" \| "4226289" \|
"4230197" \| "4241797" \|
"4281726" \| "4284153" \|
"4333542" \| "4341272" \|
"4346770" \| "4361195" \|
"4376468" \| "4394883" \|
"4494615" \| "4498548" \|
"4566546" \| "4582148" \|
"4607692" \| "4646830" \|
"4688649" \| "4736797" \|
"4806928" \| "4865125" \|
"4919219" \| "4923373" \|
"5007479" \| "5022473" \|
"5069282" \| "5085479"
"5086853" \| "5109932"
"5123493" \| "5156211"
"5170843" \| "5217070" \| | US-PGPUB;
USPAT;
USOCR | OR | ON | 2005/01/12 09:11 |

S69	2	("6481495").URPN.	USPAT	OR	ON	2005/01/12 09:12
S70	776	(175/40).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/12 09:22
S71	37	signal with transduc$3 with MWD	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/01/12 09:22